optical means for guiding the plurality of independently modulated beams of light emitted from said light source means to a deflecting surface of said deflecting element; and

an optical element for causing the plurality of independently modulated beams of light deflected by said deflecting element to be imaged into a spot-like shape on a surface to be scanned, said optical element comprising a single lens, the curvatures of opposite lens surfaces of the single lens in the sub-scanning direction being continuously varied from the on-axis toward the off-axis in the effective portion of the lens.

45. A scanning optical apparatus according to Claim 44, wherein when the maximum value and minimum value of an F number of the beam of light incident on the surface to be scanned in the sub-scanning direction are Fmax and Fmin, respectively, the curvatures of the opposite lens surfaces of the single lens in the sub-scanning direction are continuously varied from the on-axis toward the off-axis so as to satisfy the condition that Fmin/Fmax ≥ 0.9.

- 46. A scanning optical apparatus according to Claim 44, wherein the sign of the curvature of at least one of the opposite lens surfaces of the single lens in the subscanning direction is reversed from the on-axis toward the off-axis.
- 47. A scanning optical apparatus according to Claim 44, wherein the curvatures of the opposite lens surfaces of the single lens in the sub-scanning direction are varied asymmetrically with respect to the optical axis from the on-axis toward the off-axis.
- 48. A scanning optical apparatus according to Claim 44, wherein said optical element is made by plastic molding.
- 49. A scanning optical apparatus according to Claim 44, wherein said optical element is made by glass molding.
- 50. A scanning optical apparatus according to Claim 44, wherein the single lens has a lens surface comprising an aspherical surface in the main scanning direction.

- 51. A scanning optical apparatus according to Claim 44, wherein the single lens has a lens surface having an inflection point in the main scanning direction.
- 52. A scanning optical apparatus comprising:
 light source means having a plurality of light
 source units capable of being independently modulated;

a deflecting element for deflecting a plurality of independently modulated beams of light emitted from said light source means;

optical means for guiding the plurality of independently modulated beams of light emitted from said light source means to a deflecting surface of said deflecting element; and

an optical element for causing the plurality of independently modulated beams of light deflected by said deflecting element to be imaged into a spot-like shape on a surface to be scanned, said optical element being comprised of at least two lenses, the curvatures of at least two lens surfaces of the two lenses in the sub-scanning direction being continuously varied from the on-axis toward the off-axis in the effective portion of the lens.

53. A scanning optical apparatus according to Claim 52, wherein when the maximum value and minimum value of an F number of the beam of light incident on the surface to

be scanned in the sub-scanning direction are Fmax and Fmin, respectively, the curvatures of the at least two lens surfaces of the two lenses constituting said optical element in the sub-scanning direction are continuously varied from the on-axis toward the off-axis so as to satisfy the condition that $Fmin/Fmax \ge 0.9$.

- 54. A scanning optical apparatus according to Claim 52, wherein the sign of the curvature of the at least one lens surface of the two lenses in the sub-scanning direction is reversed from the on-axis toward the off-axis.
- 55. A scanning optical apparatus according to Claim 52, wherein the curvatures of the at least two lens surfaces of the two lenses in the sub-scanning direction are varied asymmetrically with respect to the optical axis from the on-axis toward the off-axis.
- 56. A scanning optical apparatus according to Claim 52, wherein at least one of the two lenses constituting said optical element is made by plastic molding.
- 57. A scanning optical apparatus according to Claim 52, wherein at least one of the two lenses constituting said optical element is made by glass molding.

58. A scanning optical apparatus according to Claim 52, wherein the at least two lens surfaces of the at least two lenses have aspherical surfaces in the main scanning direction.

59. A scanning optical apparatus comprising:
light source means having a plurality of light
source units capable of being independently modulated;

a deflecting element for deflecting a plurality of independently modulated beams of light emitted from said light source means;

optical means for guiding the plurality of independently modulated beams of light emitted from said light source means to a deflecting surface of said deflecting element; and

an optical element for guiding the plurality of independently modulated beams of light deflected by said deflecting element to be imaged into a spot-like shape on a surface to be scanned, said optical element being comprised of a plurality of lens surfaces, the curvatures of at least two lens surfaces of the plurality of lens surfaces in the sub-scanning direction being continuously varied from the on-axis toward the off-axis in the effective portion of the lens.